



TFW Receipt

PATENT
Attorney Docket No. 211843-00032

IN THE U.S. PATENT AND TRADEMARK OFFICE

Application No.: 10/519,699
I.A. Filing Date: June 26, 2003
Inventor(s): Horsky, et al.
Title: Ion Implantation Device and a Method of Semiconductor Manufacturing
by the Implantation of Boron Hydride Cluster Ions
Group Art Unit No.: 2881
Confirmation No.: 6928

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

REQUEST FOR CORRECTED FILING RECEIPT

Sir:

Please correct the attached, marked-up copy of page 1 of the official filing receipt as follows:

Under "FIL FEE REC'D": delete "1440" and insert --2880-- therefor (see the attached "Correction of Entity Status and Payment of Fee Deficiency" filed by facsimile on September 14, 2005, which confirms the correct filing fee amount of \$2880);

The customer number (and its corresponding address) should be changed from "27180" to --27160-- (see the attached copy of the Declaration filed on September 14, 2005, which provides a customer number of 27160);

Under "Applicant(s)": delete "Bozborough" and insert --Boxborough-- therefor, and delete "Dale Jacobson" and insert --Dale C. Jacobson--therefor (see the attached copy of the Declaration filed on September 14, 2005, which sets forth the correct applicant data); and

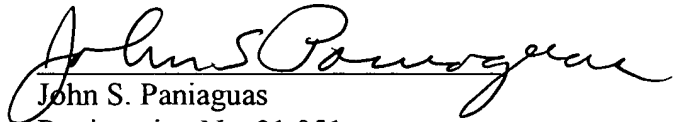
Application No. 10/519,699
Attorney Docket No. 211843-00032
Page 2

Under "Domestic Priority data as claimed by applicant": after "04/18/2003" insert --and is a CIP of 10/183,768 06/26/2002-- (see the attached Preliminary Amendment filed by facsimile on January 20, 2006, which amends the priority claim in the specification).

Respectfully submitted,

KATTEN MUCHIN ROSENMAN LLP

By:


John S. Paniaguas
Registration No. 31,051
Attorney for Applicant(s)

Date: March 23, 2006

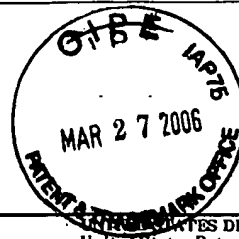
Katten Muchin Rosenman LLP
525 W. Monroe Street
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Page 1 of 3



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APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/519,699	09/14/2005	2881	1440	211843-00032	36	39	7

~~27180~~ 27160

~~ISIS PHARMACEUTICALS INC.~~
~~1898 RUTHERFORD RD.~~
~~CARLSBAD, CA 92008~~

PATENT ADMINISTRATOR
KATTEN MUGHIL ROSENMAN
525 W. MONROE ST.
CHICAGO, IL 60661-3693

CONFIRMATION NO. 6928

FILING RECEIPT



0C000000017810367

Date Mailed: 01/11/2006

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

Applicant(s)

Boxborough
Thomas N. Horsky, Boxborough, MA;
Dale Jacobson, Salem, NH;

Power of Attorney: The patent practitioners associated with Customer Number 27180.

Domestic Priority data as claimed by applicant

This application is a 371 of PCT/US03/20197 06/26/2003
which claims benefit of 60/463,965 04/18/2003 AND IS A CIP OF 10/183,768
06/26/02

Foreign Applications

Projected Publication Date: 04/20/2006

Non-Publication Request: No

Early Publication Request: No

Title

Ion implantation device and a method of semiconductor manufacturing by the implantation of boron hydride cluster ions



PATENT
Attorney Docket No. 211843-00032

IN THE U.S. PATENT AND TRADEMARK OFFICE

Application No.: 10/519,699
Filing Date: December 23, 2004
Art Unit: Not yet received.
Confirmation No.: 6928
Inventor(s): Horsky
Title: An Ion Implantation Device and a Method of Semiconductor Manufacturing
by the Implantation of Boron Hydride Cluster Ions

CORRECTION OF ENTITY STATUS AND PAYMENT OF FEE DEFICIENCY

Sir:

This communication serves to notify the U.S. Patent and Trademark Office of a correction to the entity status of the instant application and to pay the balance of deficient fees.

On the date of filing, December 23, 2004, it was believed in good faith that the application qualified for small entity fees. However, it is now apparent that small entity status was claimed (and small entity fees were paid) in error.

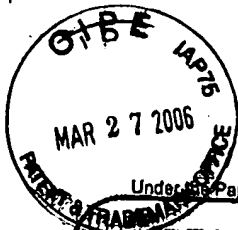
In order to correct the error, the deficiency owed is itemized in accordance with 37 CFR § 1.28(c)(2)(ii) as follows:

TYPE OF FEE ERRONEOUSLY PAID AS A SMALL ENTITY	CURRENT FEE AMOUNT FOR A NON-SMALL ENTITY	SMALL ENTITY FEE ACTUALLY PAID/ DATE OF PAYMENT	DEFICIENCY OWED AMOUNT
Basic National Fee	\$300	\$150 December 23, 2004	\$150
Examination Fee	\$200	\$100 December 23, 2004	\$100
Search Fee	\$500	\$250 December 23, 2004	\$250
Late oath/declaration surcharge	\$130	\$65 December 23, 2004	\$65
Total claims	\$950	\$475 December 23, 2004	\$475
Independent claims	\$800	\$400 December 23, 2004	\$400
TOTAL			\$1,440.00

The Commissioner is hereby authorized to charge \$1,440.00 for the payment of the deficiencies to Deposit Account No. 50-1214. The Commissioner is also hereby authorized to charge any additional deficiencies in the payment of the fees or credit any overpayment to Deposit Account No. 50-1214. A duplicate copy of this notification is enclosed.

Date: 9-14-05

By: John S. Paniaguas
John S. Paniaguas
Attorney for Applicant(s)
Reg. No. 31,051



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PTO/SB/01 (04-05)

Approved for use through 07/31/2006. OMB 0651-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE
Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.**DECLARATION FOR UTILITY OR
DESIGN
PATENT APPLICATION
(37 CFR 1.63)**

☐ Declaration Submitted With Initial Filing OR ☒ Declaration Submitted after Initial Filing (surcharge (37 CFR 1.16 (e)) required)

Attorney Docket Number 211843-00032
First Named Inventor Thomas N. Horsky, et al.

COMPLETE IF KNOWN

Application Number 10/519,699
Filing Date December 23, 2004
Art Unit Unknown
Examiner Name Unknown

I hereby declare that:

Each inventor's residence, mailing address, and citizenship are as stated below next to their name.

I believe the inventor(s) named below to be the original and first inventor(s) of the subject matter which is claimed and for which a patent is sought on the invention entitled:

**An Ion Implantation Device and a Method of Semiconductor Manufacturing by the
Implantation of Boron Hydride Cluster Ions**

(Title of the Invention)

the specification of which

☐ Is attached hereto

OR

☒ was filed on (MM/DD/YYYY) 06/23/2003

as United States Application Number or PCT International

Application Number PCT/US03/20197 and was amended on (MM/DD/YYYY) (If applicable).

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment specifically referred to above.

I acknowledge the duty to disclose information which is material to patentability as defined in 37 CFR 1.56, including for continuation-in-part applications, material information which became available between the filing date of the prior application and the national or PCT international filing date of the continuation-in-part application.

I hereby claim foreign priority benefits under 35 U.S.C. 119(a)-(d) or (f), or 385(b) of any foreign application(s) for patent, inventor's or plant breeder's rights certificate(s), or 365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below, by checking the box, any foreign application for patent, inventor's or plant breeder's rights certificate(s), or any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number(s)	Country	Foreign Filing Date (MM/DD/YYYY)	Priority Not Claimed	Certified Copy Attached?	
				YES	NO
PCT/US2003/020197	PCT	06/23/2003	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
			<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

☐ Additional foreign application numbers are listed on a supplemental priority data sheet PTO/SB/02B attached hereto.

[Page 1 of 2]

This collection of information is required by 35 U.S.C. 115 and 37 CFR 1.63. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.11 and 1.14. This collection is estimated to take 21 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance completing the form, call 1-800-PTO-9199 and select option 2.

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Approved for use through 07/31/2008. OMB 0681-0032
U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

DECLARATION — Utility or Design Patent Application

Direct all correspondence to:		<input checked="" type="checkbox"/> The address associated with Customer Number:	27160		OR	<input type="checkbox"/> Correspondence address below
Name						
Address						
City			State		ZIP	
Country		Telephone		Email		
<p>I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under 18 U.S.C. 1001 and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.</p>						
NAME OF SOLE OR FIRST INVENTOR:				<input type="checkbox"/> A petition has been filed for this unsigned inventor		
Given Name (first and middle [if any])				Family Name or Surname		
Thomas N.				Horsky		
Inventor's Signature				Date		
<i>Thomas N. Horsky</i>				Sept 14, 2005		
Residence: City		State		Country		Citizenship
Boxborough		MA		USA		USA
Mailing Address						
816 Depot Road						
City		State		Zip		Country
Boxborough		MA		01719		USA
NAME OF SECOND INVENTOR:				<input type="checkbox"/> A petition has been filed for this unsigned inventor		
Given Name (first and middle [if any])				Family Name or Surname		
Dale C.				Jacobson		
Inventor's Signature				Date		
<i>Dale C. Jacobson</i>				Sept 14, 2005		
Residence: City		State		Country		Citizenship
Salem		NH		USA		USA
Mailing Address						
16 Flintlock Road						
City		State		Zip		Country
Salem		NH		03079		USA
<input type="checkbox"/> Additional inventors or a legal representative are being named on the supplemental sheet(s) PTO/SB/02A or 02LR attached hereto.						



PATENT
Attorney Docket No. 211843-00032

IN THE U.S. PATENT AND TRADEMARK OFFICE

Application No.: 10/519,699
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Group Art Unit No.: 2881
Confirmation No.: 6928

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

PRELIMINARY AMENDMENT

Sir:

Prior to examining the instant application on the merits, please enter the following preliminary amendment.

Amendment to the Specification is reflected on page 2.

Remarks begin on page 3 of this paper.

AMENDMENT TO THE SPECIFICATION

On page 1 please delete the paragraph under "Cross Reference to Related Applications" and replace it with the following:

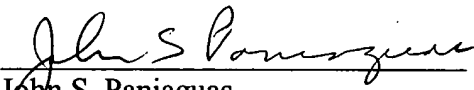
This application is the U.S. national phase under 35 U.S.C. § 371 of International Patent Application No. PCT/US03/20197, filed on June 26, 2003, which claims priority to and the benefit of U.S. Provisional Patent Application No. 60/463,965, filed on April 18, 2003, and which also is a continuation-in-part of U.S. Patent Application No. 10/183,768, filed on June 26, 2002.

REMARKS

It is respectfully requested that the instant Preliminary Amendment be entered prior to examination. It is also respectfully submitted that the instant application is the national phase of International Application No. PCT/US2003/020197, filed on June 26, 2003. The priority in the amendment is the same priority set forth and accepted in the US/RO during the international phase. As such, it is Applicant's position that a Petition under 37 C.F.R. § 1.78(a)(3) is not required since the instant preliminary amendment is merely to clarify the language of the priority claim. However, should the Examiner decide that a Petition is required, the Examiner is respectfully requested to notify the undersigned attorney for applicant.

Respectfully submitted,

KATTEN MUCHIN ROSENMAN LLP

By: 
John S. Paniaguas
Registration No. 31,051
Attorney for Applicant(s)

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